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AUTHORITY
USNWC ltr, 30 Apr 1974

	CIDED S. MANO ZI REBURT CHEMARY CHEET	
12	GIDEP Form 1A:12-71 REPORT SUMMARY SHEET	of 4
4	1. COMPONENT/PART NAME PER GENERIC CODE 2. PROGRAM OR WEAPON SYSTEM ACCESS NOWHER DE	79/3
		DAY MO. YR.
Ž	5. ORIGINATOR'S REPORT TITLE 5. ORIGINATOR'S REPORT NO. TEST COMPL. 7 ORIGINATOR'S REPORT TITLE Q-1487 Rev. A REPT. COMPL.	
(6	Qualification of detector and sync.) 6. TEST TYPE, ETC. 1	8 12 71
(filter modules (A-3). Qualification (11) 7 7	mal
	THIS TEST (SUPERSEDES) (SUPPLEMENTS) REPORT NO: N/A	0 141
4	BA. PART TYPE, SIZE, RATING, LOT, ETC. 9. VENDOR & H4 CODE NO 10. VENDOR PART NO. 11. IND./GOV STD	NO 12 TOTAL
C	Raytheon	
0	Detector and sync. 05030 2606038 Rev. 2606038 Re	v. 14
^	Filter Modules (A-3)	1
6	3 7000000000000000000000000000000000000	
	Encapsulated	
a	4/25/NGB\$19-70-C-02691	Joveni
_	13. INTERNAL SPECS. ETC REQ'D TO UTILIZE REPT. ENCL SENT WITH REPORT NO. 14. MIL. SPECS /STDS: REFERENCES 14. MIL. SPECS /STDS: REFERENCES 15. MTT.—STD—202) IN 15C
-	DA 2606038 RevE X B MIL-STD-202 B XAS-1846 530.00.00.00-X7-01 E	
V	ic F	,
-	15A. TEST OR ENVIRONMENT C D SPEC. PARAGRAPH E TEST LEVELS, DURATION AND OTHER DETAILS	F G
	SPEC METHOD/CONDITION	TESTED FAILED
	GROUP I	
	Vis. and Mech Workmanship, materials, processes, Inspection B 4.14.1 dimensions, interchangeability and	4 0
	markings ,	
:	ALL Electrical Sheets 1, 4	
į	All Electrical Sheets 1, 4 Characteristics A Tables I, II (+1) C Bridge	4 0
1	Pre-Environ. Post-Environ.	4 0
1	Resistance 0.1 OHM max. 0.2 OHM max. Supply Pre-Environ. Post-Environ.	7 0
,	Current (5) 10 MADC max. 15 MADC max.	4 0
i	Supply Pre-Environ. Post-Environ Current(29) 30 MADC max. 35 MADC max.	4 0
	3 Supply Pre-Environ. Post-Environ.	
	To MADC max. 15 MADC max.	4 0
, "(Supply Pre-Environ. Post-Environ. Current (35) 10 MADC max. 15 MADC max.	4 0 22 (over) R
	16. SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN:	U) fo
	Test data parely legible and not suitable for microfilming:	(3) 35
	available on a loan basis from submitting participant (X7).	M M
	Da	9
	17 ENVIRONMENTAL EXPOSURE CODES	- φφχ- - χ- φφ χ αφ χ αφ χ αφ αφ-
	BMST/UVYZ 18 APR 1972	\\\\X\\\\\X\\\\\\\\\\\\\\\\\\\\\\\\\\\
		(OVER)
	TESTED BEYOND YES 19 VENDOR INFORMED BY NO SIGNED KOSTOPULES 21 CONTRACTOR SUBCONTRACTOR SUBCONTRACT	
	REPRODUCTION OR DISPLAY OF THIS MATERIAL FOR SALES OR PUBLICITY PURPOSES IS PR	
		·/
-	38 403 119/	//E'
		OOT

Accession for	
RHS	314 2 2013
MONEY HOLE	
Element 1 mg	
B	*

GIDEP Form 1C:12-71 REPORT SUMMARY SHEET (CONTINUATION)					
TEST OR ENVIRONMENT	PER SPEC	SPEC, PARAGRAPH/	E TEST LEVELS, DURATION AND OTHER DETAILS	F TESTED	FARES
Aud. Amp. Output			Pre-Environ. Post-Environ. 8.0 ±0.75 VRMS 8.0 ±1.0 VRMS	4	0
Phase Adjust Phase Difference			Pre-Environ. Post-Environ.	4	0
Det. Ampl. Output			14 ± 5 KOHM 14 ± 5 KOHM Pre-Environ. Post-Environ. 5.75 ± 3.0 VRMS 5.75 ± 3.0 VRMS	4	0
Sync Filter Output			Pre-Environ. Post-Environ.	4	
Sync Filter			$\begin{array}{c ccccc} 0.43 \pm 0.05 & 0.43 \pm 0.07 \text{ VRMS} \\ \hline \text{Pre-Environ.} & \text{Post-Environ.} \\ 9 \pm 2 \text{ Hz.} & 9 \pm 3 \text{ Hz.} \\ \end{array}$	4	0
Bandwidth R/L Output			Pre-Environ. Post-Environ. 0.75 ± 0.10 VRMS 0.75 ± 0.20 VRMS	4	0
U/D Output			Pre-Environ. Post-Environ. 0.75 ± 0.10 VRMS 0.75 ± 0.20 VRMS	4	0
R/L Switch- ing Symetry			Pre-Environ. Post-Environ. 0.2 MSEC max. 0.4 MSEC max.	4	0
U/D Switch- ing Symetry			Pre-Environ. Post-Environ. 0.2 MSEC max. C.4 MSEC max.	4	0
Sync Filter Noise			Pre-Environ. Post-Environ. 10 MVRMS max. 15 MVRMS max.	4	0
Seam Circuit Voltage			Pre-Environ. Post-Environ. 2.35 ± 0.15 VRMS 2.35 ± 0.25 VRMS	4	0
∫Seam Circuit Phase			Pre-Environ. Post-Environ. 12.0 ± 6°	4	0
GROUP II					
ALU Thermal Shock	D	Method 107 Condition B	-65°, 25°, 125°, 25°C, 5 cycles; followed by electrical character-	4	0
ALL			istics		
all Humidity Bake	D		104°F, 24 hrs; followed by electrical characteristics	4_	0
ALL Humidity	D	Method 103 Condition B	40°C, 90 to 95% RH, 90 hrs.; followed by electrical character-	4	0
			istics -		
AL Low Temperature	В	4.12.2	-55°C, 15% RH, 4 hrs.; followed by electrical characteristics	4	0
ALU High Temperature			+125°C, 4 hrs; followed by electrical characteristics	4	0
Distribution ling Test and Evaluation this and Evaluation this approximation approximation and the second s	ite tion	Robertion	gencies only? Gencies only? Mor requests Mosile Myster Mosile	rs	530.34.00.00-X/-0/

2-71		ARY SHEET (CONTINUATION) 3	of 4	-
ONMENT PER SPEC	JEC. FARAGRAPH/	TEST LEVELS, DURATION AND OTHER DETAILS	rested NO.	G FARLFT
	1. 20 5	30 impact shocks, 50 gravity units	١,	^
- B	4.12.7		+	0
			}	
	Method 204	(15G (neak), 10 to 2,000 Hz, 20 min.		
n D	,		4	0
	0011411 011011 12			
	ĺ			
1 B	4.14.1	dimensions, interchangeability and	4	0
		markings		
		Axial pull of 5 lbs. for 10 sec.,		
B	4.10.5	90 degree bends; job load by	4	0
		electrical characteristics		
ooh		Some of Group T. Pollowed by		
	ן רול ו		121	0
דור ב				
22+			2	0
201 In	OOTIGE OT OIL D			<u>`</u> _
В	4.12.3		4	0
			'	_ _
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		characteristics		
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nce				0
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		ISTICS		
V	36.73. 3.200	06 1000 0077 7 1000 077		
rst _),	0
1 D	Condition C OF FAILURES AND CORREC	characteristics	1 -4	
	B On D B Ech. B Beat D B ace D	METHOD/CONDITION B 4.12.7 Method 204 Condition B 4.14.1 B 4.10.5 Condition B 4.12.3	TEST LEVELS, DURATION AND OTHER DETAILS	TEST LEVELS, DURATION AND OTHER DETAILS 150

GIDEP Form 1C:12-71			RY SHEET (CONTINUATION) 4	of ·	4
TEST OR ENVIRONMENT	PER SPEC	D SPEC, PARAGRAPH/ METHOD/CONDITION	E TEST LEVELS, DURATION AND OTHER DETAILS	reste	FARE
니Life 2nd		Method 108	72 hrs; followed by electrical	1.	
<u>Profile</u>	D_	Condition C	characteristics	14_	0
민Life 3rd	_	Method 108	96 hrs; followed by electrical	١,	
Profile	D_	Conditon C	characteristics	4_	0
비Life 4th	_	Method 108	72 hrs; followed by electrical]
Profile	D	Condition C	characteristics	14_	0
ULife 5th	_	Method 108	96 hrs; followed by electrical	1.	
Profile	D	Condition C	characteristics	14	0
uLife 6th	7	Method 108	72 hrs, total hrs: 504.0; followed	١,.	l _
Profile	D	Condition C	by electrical characteristics.	4_	0
			visual examination, terminal	ł	
		***	strength, electrical character-		
			istics		
UVisual			Materials, internal lead wires,		!
Internal	В	4.14.2	internal mountings and workmanship	2	0
_]					
J					
J		······································			
1					
	_				
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				-	
J					
J					
				-	
SUMMARY OF REPORT, NA	TURE	OF FAILURES AND CORRECT	IVE ACTIONS TAKEN:		530
Detector and	sv	nc. filter modu	les have successfully passed the		iu
requirements	, Ra	ytheon Company	- Lowell is considered to be a		4.
qualified so	urc	e for Detector	and Sync. Filter Modules (A-3).		j,c
•					10
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					K
					1

NOTICES PAGE

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REPORT: Q-1427
PART NUMBER: 20

2606038 Rev.-

PART NAME: Det. & Sync. Filter Module (A-3)

PROGRAM: Solid State Sidewinder VENDOR: Raytheon Co. - Lowell, Mass.



CUSTOMER REPORT NO.	Q-1427 Rev. A	RAYTHEON REPORT NO.	Q-1427 Rev. A
Filter mod	EST ON: Qualification Aules (A-3) P/N 2606 Company - Lowell, Ma	6038 Rev. — sı	ector and Sync.

TEST PERFORMED BY

Raytheon Company

TEST AUTHORIZED BY

DCASO

CONTRAC: NO.

N-000-19-70-C-0269

RAYTHEON COMPANY MISSILE SYSTEMS DIVISION LOWELL PLANT



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VENDOR QUALIFICATION TEST REPORT

CUSTOMER REPORT NO. Q-1427 Rev. A	RAYTHEON REPORT NO	Q-1427 Rev. A
REPORT OF TEST ON: Qualification of filter modules (A-3) P/N 2606038 Raytheon Company - Lowell, Massac	Rev su	ctor and sync.

TEST PERFORMED BY

Raytheon Company
TEST AUTHORIZED BY

DCASO
CONTRACT NO.
N-000-19-70-C-0269

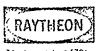
	DATE	SIGNATURE
TEST INITIATED	9-17-71	• .
TEST COMPLETED	11-18-71	``
REPORT WRITTEN BY		C. Bridge
TECHNICIAN		
TEST ENGINEER	2/2/72	John T. Homer
PRODUCT ENGRG. SECTION HEAD	2/7/72	2. Calderword Vlever
PROJECT OFFICE	2/7/72	Wantes.
RELIABILITY ENGRG.	2/7/72	Clehendes Pheling
RELIABILITY ENGRG. SUPERVISOR	1/25/72	Royd Cooley
WITNESSED BY		
CUSTOMER		
FINAL RELEASE		



SUMMARY SHEET

1. C	OMPONENT/PART NAME PER	RENER	IC CODE	2. PROGE	RAM OR	WE/	APON SYSTEM	3.		DAY		YEAR
	tector and Sync.	riite.	r Mod	YAIM-9H			TEST COMPLETE			11	71	
4. R	AYTHEON REPORT TITLE											71
_Ve	ndor Qual. Test R	eport		5. RAYTHEON REPORT NO. Q-1427 Rev. A				st type ualificat	ion			
7. TI	HIS TEST SUPERSEDE	ES	SUF	PLEMENT	'S	ŧ	KEPORT NO.	Ŋ	/A			
В	8A.			9.			10. VEND	OR	11. IND./G	OVT.	12.	TOTAL
ITEM	PART TYPE, SIZE, RATIN	IG, LOT,	ETC.	VEND	OR		PART	NO.	STANDA		ĩ	ESTED
1	(A-3) Detector & Sync. Fil			. Rayt	heor	2	Re 2606038	€V• }	2606038	Rev	- 1	4
2					·							
3												
4												
13. INTERNAL SPECS, ETC. REQUIRED TO UTILIZE REPORT			RED	ENCL. SENT WITH REPORT NO). l	14. MIL SPECS/STANDARDS REFERENCED IN 15C					
A 2	A 2606038 Rev				.			XAS-1	-1846			
В							E					
c				F								
B ITEM	15A. TEST OR ENVIRONMENT	C PER SPEC.		. PARAGR D/CONDIT		E	TEST LEVE			F NO TESTE		NO. AILED
1	Vis.&Mech.Insp.	14	4.14.	.1			3.	9		4		0
1	Electrical	14	4.	11			3.	4		4		0
1	Thermal Shock	14	4.12	. 4		A.T.	3.6	5.4		4		0
1	Electrical	14	4.	1.1			3	3.4		4		0
1	Humidity Bake	14	4.12	.5			3.6	5.5		4		0
1	Electrical	14	4.	1.1			3	3.4		4		0
16. S	16. SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN											

							71. REPORT Q-142
المدن	17.	TESTED BEYOND VENDOR CATALOG	18. VENDOR INFORMED OF TES	T RESULTS BY LETTER	X COPY OF REPORT	ORAL	7 NO.
		SPECIFICATIONS	19. SIGNED	20. CONTRACTOR	SUBCONTRACTO	R	ev.
		YES	C. Bridge	Raytheon Co.	None		A
				2 !		IJ.	10



8	8A.			9.		10. VENDOR	11. IND./	GOVT.	12. TOTAL
ITEM		IG, LOT,	ETC.	VENDOR		PART NO.		ARD NO.	TESTE
5			<i>---------</i>						
6					·····				· · · · · · · · · · · · · · · · · · ·
7									
8									
B ITEM	15A. TEST OR ENVIRONMENT	C PER SPEC.		. PARAGRAPH/ D/CONDITION	E	TEST LEVELS, (AND OTHER D		F NO. TESTED	· ·
1	Humidity	14	4.	12.5		3.6.5	5	4	0
1	Electrical	14		4.11		3.4		4	0
1	Low Temperature	14	4.	12.2		3,6.2	2	4	0
1	Electrical	14		4.11		3.4		4	0
1	High Temperature	14	4.	12.1		3.6.	<u>L</u>	4	0
1	Electrical	14		4.11		3.4	-2	1,	0
1	Impact Shock	14	4.	12.7		3.6.	7	4	0
ז	mloatrian!	7.4		<i>A</i> 11		2.4		1	

1 Electrical 14 4.11 3.

16. SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

21. REPORT NO. Q-1427 Rev. A



B ITEM	8A. PART TYPE, SIZE, RATIN	IG, LOT,	ETC.	9. VENDOR		10. VENDOR PART NO	,	11. IND./G STANDAR		12. TOTAL TESTED
5		i				**************************************				
6										
7										
8										
B ITEM	15A. TEST OR ENVIRONMENT	C PER SPEC.		. PARAGRAPH/ DD/CONDITION	Ē	TEST LEVELS AND OTHER			F NO. TESTED	G NO. FAILED
1	Vibration	14	4.1	.2.6		3.6.6	5		4	*
1	Electrical	14	4	.11		3.4	<u>. </u>		4	0
1	Visual Insp.	14	4.1	4.1	3.3	, 3.7, 3.8	3, 3	3.9	4	0
1	Terminal Strengt	h14	4.1	.0.5		3.5.3	3		4	0
1	Electrical	14	4	.11		3.4	1		4	0
1	End of Group II									**
								:		

16. SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

* Mounting flange broke off during installation of Ser. #0226 into vibration fixture. See incompatability notice #0137.

The flange was damaged during removal of module from the impact shock fixture. A screw used to hold the fixture to the shock machine working head, was turned out under the module, which was still held down by its flange screws, jacking the module up against its flange screw and cracking the flange.

The broken flange was repaired, and module continued in qualification.

** Four modules successfully passed the requirements of Q-1427 Group II tests.

21. REPORT NO. Q-1427 Rev. A.



75-202-06 (9/70)

В	8A.		T	9.		10. VENDOR	11. IND./G		7 TOTAL
ITFN	ONT TYPE, SIZE, KAIN	NG, LOT,	ETC.	VENDOR		PART NO.	STANDA	RD NO.	TESTED
5									
6	`								
7									
8									
B ITEM	15A. TEST OR ENVIRONMENT	C PER SPEC.		PARAGRAPH/ D/CONDITION	ε	TEST LEVELS, DU AND OTHER DE		F NO. TESTED	G NO. FAILED
1	Vis.&Mech. Insp.	14	4.	14.1		3.9		4	0
1	Electrical	14	4.	11		3.4		4	0
1	Heat Res.to Solder	14	4.	10.4		3.5.2	2	2.	0
1	Storage	14	4.	12.3		3.6.3	3	4	0
1	Electrical	14	4.	11		3.4		4	0
1	Humidity Bake	14	4.	12.5		3.6.5	5	4	0
1	Electrical	14	4.	11		3.4		4	0
1	Humidity	14	4.	12.5		3.6.5	5	4	0

^{16.} SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

Q-1427 Rev. A



U ITEM	8A. PART TYPE, SIZE, RATIN	ic int	FTC	9. VENDOR		10. VENDOR PART NO.	11. IND./G STANDAR		12. TOTAL TESTED
5	PART TIPE, SIZE, RATII	10, 201,		YENDOK					
		·							
6									
7	_								
8									
B ITEM	15A. TEST OR ENVIRONMENT	C PER SPEC.		. PARAGRAPHI	E	TEST LEVELS, DU		F NO.	1
HEM	1621 OK ENVIRONMENT	SPEC.	METHO	אטר לטאטי דוטא		AND OTHER DE	IAILS	123121	FAILED
1	Electrical	14	4.	11		3.4	· · · · · · · · · · · · · · · · · · ·	4	0
1	Vis.Inspection	14	4.1	14.1	3.	.3, 3.7, 3.8,	3.9	4	0
1	Terminal Strengt	114	4.	10.5		3.5.3		4	0
1	Electrical	14	4.	11		3.4		4	0
1	Flame Resistance	14	4.:	12.8		3,6,8		1	0
	End of Group III								*

^{16.} SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

Q-1427 Rev. A

^{*} Four modules successfully passed the requirements of Q-1427 Group III tests.

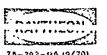


75-202-06 (9/70)

									
В	8A.	<u> </u>		9.		10. VENDOR	11. IND./G	OVT.	12. TOTAL
ITEM	PART TYPE, SIZE, RATIN	IG, LOT,	ETC.	VENDOR		PART NO.	STANDAR	RD NO.	TESTED
5									
6									
7									
8									
В	15A.	C PER	D SPEC	. PARAGRAPH/	ī	TEST LEVELS, DU	RATION	F NO.	G NO.
ITEM	TEST OR ENVIRONMENT	SPEC.		D/CONDITION		AND OTHER DE		TESTE	
1	Vis.&Mech.Insp.	14	4.	14.1		3.9		4	0
1	Electrical	14	4.	11		3.4		4	0
1	Profile lst Life Test	14	4.	14.3		3.6.9	9	4	0
1	Electrical	14	4.	11		3.4		4	0
1	Profi] 2nd Life Test	e 14	4,	14.3		3.6.9	9	4	0
1	Electrical	14	4.	11		3.4		4	0
1	Profile 3rd Life Test	14_	4.	14.3		3.6,9	9	4	0
1	Electrical	14	4.	11		3.4		4	0

16. SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

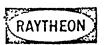
1. REPORT NO. Q-1427 Rev. A



В	8A.			9.		10. YENDOR	11. IND./G		12. TOTAL
ITEM	PART TYPE, SIZE, RATIN	G, LOT,	ETC.	VENDOR		PART NO.	STANDAR	RD NO.	TESTED
5									
6									
7									
8									
В	15A.	C PER		. PARAGRAPH!	ě	TEST LEVELS, DU	RATION	F NO.	G NO.
ITEM	TEST OR ENVIRONMENT	SPEC.	METHO	D/CONDITION		AND OTHER DE	TAILS	TESTEC	FAILED
_	4th Life Test								
1	Profile	14	4	.14.3	ļ	3.6.	.9	4	0
1	Electrical	14	4	.11		3.4		4	0
-	5th Life Test								
<u>_l</u>	Profile	14	4	.14.3		3.6.	, 9	4	0
_1	Electrical	14	4	.11		3.4		4	o
_	6th Life Test						_		
_1	Profile	14	4	.14.3	<u> </u>	3.6.	. 9	4	0
_1	Electrical	14	4	.11		3.4		4	0
_ 1	Vis. Inspection	14	4	.14.1	3.	3, 3.7, 3.8,	3.9	4	0
1	Strength Terminal	14	4	.10.5		3.5.	. 3	Ą	0

^{16.} SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

21. REPORT NO. Q-1427 Rev. A



8 11 C M	A. PART TYPE, SIZE, RATIN	IG, LOT,	ETC.	9. VENDOR		10. VENDOR PART NO.	11. IND. G STANDA		2. TOTAL TESTED
5									
6					 	' 			
7		·							
8							<u> </u>		
B	15A. 1EST OR ENVIRONMENT	C PER SPEC.		. PARAGRAPH '	Ξ	TEST LEVELS, DU AND OTHER DE		F NC. TESTED	FAILED
<u>}.</u>	Electrical	14	4.]	.1		3.4		4	0
1	Vis. Inspec.(Int)	14	4.]	4.2	3.	3, 3.7, 3.8,	3.9	2*	0
	End of Grp. IV						······································	**	
	End of Qual.							***	ļ
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^{16.} SUMMARY OF REPORT, NATURE OF FAILURES AND CORRECTIVE ACTIONS TAKEN

Q-1427 Rev. A

^{*} Two unpotted modules used for visual standards.

^{**} Four modules successfully passed the requirements of Q-1427 Group IV tests.

^{*** (14)} Detector and sync. filter modules (A-3) P/N 2606038 Rev. - have successfully passed the requirements of Q-1427, therefore Eaytheon Company Lowell, Mass. is considered to be a qualified source of these modules.

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TEST SUMMARY SHEET

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			T	7	- '	
MBERS	2	4\2			r. #0207,	
SAMPLE NUMBERS	FROM	- 4×2	-		tests Ser.	
	Œ	- Z		SK3	Ħ	
PLETED	2	ຊຸ		REMARKS	to Group	
DATE TEST COMPLETED	11-18-11	DATE TEST BEGUN 8-3-71			omitted ?.	
DAT		140			les sub 16, 0242	
					Four modules submitted 0226, 0236, 0242.	
			,s2	PASSED	4 4 02 02	44
,	7	•	1 5	_		
, E	(Rev.	17 PE	<u> </u>	912	44	44
12	2606038	TURER'S T	1 55	MAX.	N/A Below	3.3 14.0 14.0 15.2 0.80 0.80 0.80 0.080 0.05 11.0 11.2 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.04 0.94 0.94 0.94 0.98 0.04
CONTRAC	56	MANUFACTURER'S TYPE	MEASURE	ži.	N/A Listed	13.6 1.3.6 1.4.1 1.4.2 1.0.2 1.0.2 1.0.2 1.0.2 1.0.2 1.0.2 1.0.3 1.0
	ıny			SPEC. LIMITS	3.9 3.4 1.m + c	10 MADC MAX. 10 MADC MAX. 110 MADC MAX. 110 MADC MAX. 110 MADC MAX. 111 MAC 111 MAC 111 MAC 112 MV RNS 112 MV RNS 114 MAC 112 MV RNS 114 MAC 11 MAC 12 MV RNS 13 MAC 14 MAC 15 MAC 16 MAX. 17 MAC 18 MAC 19 MAC 10 MAX. 11 MAC 11 MAC 11 MAC 12 MAC 13 MAC 14 MAX. 15 MAC 16 MAX. 16 MAC 17 MAC 18 MAC 19 MAC 1
CONTRACTOR	Raytheon Company	MANUFACTURER		יבין בסייטוויסא	& Mechanical Inspection cal Test Ec. PARAMETERS	nt nt nt ain liff. Output Output Bandwidth etry etry etry etry m. 7 & 12 m. 7 & 12 m. 7 & 12 nt ent ent ent ent cutput output cutput ent ent ent ent ent ent ent ent ent en
Filter Wodule 2 2	?	-		2	Visual & Mechanical I Electrical Test ELEC. PARAMETERS	1 Supply Current 2 Supply Current 4 Supply Current 5 Supply Current 5 Det. Amol. Gain 6 Phase Adj. Diff. 6 Det. Amol. Gain 7 Sync. Filter Output 8 Sync. Filter Bandwidth 9 K/L Output 10 U/D Output 11 K/L Sw. Symetry 12 U/D Sw. Symetry 13 Sync. Filter Noise 14 Sean Circuit RES. PARAMETERS 1 Between Term. 7 & 12 Thermal Shock Electrical Test ELEC. PARAMETERS 1 Supply Current 2 Supply Current 3 Supply Current 5 Supply Current 6 Supply Current 7 Supply Current 7 Supply Current 8 Supply Current 9 Supply Current 1 Supply Current 1 Supply Current 1 Supply Current 1 Supply Current 2 Supply Current 1 Supply Current 1 Supply Current 1 Supply Current 2 Supply Current 1 Supply Current 1 Supply Current 2 Supply Current 1 Supply Current 1 Supply Current 2 Supply Current 1 Supply Current 1 Supply Current 2 Supply Current 3 Supply Current 4 Supply Current 6 Det. Ampl. Gain 6 Det. Ampl. Gain 6 Det. Ampl. Gain 7 Sync. Filter Bandwidth 1 K/L Sw. Symetry 1 Sync. Filter Noise 1 Seam Circuit 1 RES. PARAMETERS 1 Between Term.
			SPEC. REF.			
Sanc.	١ ا	:	DATA REF.		ç 32 37	40
Detector	70000	je. 2606039 t	1		нн	HH
ITEK De			1		44	m →

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2 K.N. FROM DATE TEST COMPLETED 11-8-71 DATE TEST BEGUN 8-3-71 SHEET NO. SAMPLES 44 2606038 Rev. 2606038 Rev. SUMMARY MANUFACTURER'S TYPE CONTRACTOR'S TYPE 14.5 8.2 8.2 8.2 9.20 0.439 0.81 MEASURED VALUES MIN. | MAX. N/A N/A 0.047 N/A Below 0.045 0.048 13.51 13.52 0.4225 0.00 0.00 0.00 2.2. 2.2. 2.2. 2.3. 2.3. 2.3. 2.3. 2.3. 2.3. 3.3. N/A Listed 2.15 15 MADC MAX.
15 MADC MAX.
15 MADC MAX.
1.5 MADC MAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
6.36 to 0.50 VRMS
6.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
17 MYRMS MAX.
17 MYRMS MAX.
17 MYRMS MAX.
110 to 2.60 VRMS VRMS TEST 15 MADC Max.
35 MADC Max.
15 MADC Max.
15 MADC Max.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
0.36 to 0.50 VWRS
6 to 12 HZ
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.4 MS Max.
17 WVRMS Max.
2.10 to 2.60 VRMS
0.1 Ohms Max. 3.6.5 3.4 LIMITS SPEC. LIMITS 0.1 Ohms Max. Electrical Test
Electrical Test
ELEC. PARAMETERS
SIEDLY Current
Supply Current
Supply Current
Supply Current
Supply Current
Det. Ampl. Gain
Shase Adi. Diff.
And. Paramel. Output
Sync. Filter Output
NY. Sync. Filter Bandwidth
Sync. Filter Bandwidth
Sync. Filter Noise
NY. Output
NY. Symetry
NY. Output
NY. Symetry
NY. Output
NY. Symetry
NY. Output
Sync. Filter Noise
Seam Circuit
RES. PARAMETERS Electrical Test
Electrical Test
Supply Current
Supply Current
Supply Current
Supply Current
Supply Current
He Supply Current
Supply Current
For Man! Gain
For Ampl. Output
Nync. Filter Output
Sync. Filter Bandwidth
Nyl Output
Nyl Sync. Filter Bandwidth
Nyl Sync. Filter Noise
Sync. Filter Noise
Som Circuit
RES. PARAMETERS
Between Term. Ravtheon Co. Raytheon Co TEST CONDITION Detector & Sync. Filter Module A-3 SPEC. REF. PAGE DATA REF. PAGE 49 51 44 2606038 Rev RAYTHEON 78-282-#7 18/701 TEST H ដដ H TEM LINE **6** မှ လ ŧ

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TEST SUMMARY SHEET

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ဥ X X SAMPLE NUMB FROM ××× REMARKS DATE TEST COMPLETED DATE TEST BEGUN 8-3-71 11-18-71 NO. SAMPLES
TELTED | PASSED 2606038 Rev. MANUFACTURER'S TYPE 2606038 Rev. CONTRACTOR'S TYPE 1.3.4 1.5.5 1.5.9 0.3.20 0.82.0 0.82.0 0.83.0 1.4 2.40 MEASURED VALUES MIN. | MAX. 0.046 N/A Below N/A Below 0.052 3.1 7.57 7.2 7.2 8.2.2 3.28 0.435 0.76 0.76 0.78 0.78 N/A Listed N/A 0.046 0.043 15 MADC MAX.
15 MADC MAX.
15 MADC MAX.
15 MADC MAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
0.36 to 0.50 VRMS
6 to 12 HZ
6 to 12 HZ
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
2.10 to 2.60 VRMS
LIMITS 15 MADC MAX.
15 MADC MAX.
15 MADC MAX.
15 MADC MAX.
16 MADC MAX.
17 MADC MAX.
18 MADC MAX.
19 MADC MAX.
2.75 to 8.75 VRMS
2.75 to 8.75 VRMS
5.55 to 0.95 VRMS
5.55 to 0.95 VRMS
5.55 to 0.95 VRMS
6.45 to 0.95 VRMS
7.55 to 0.95 VRMS SPEC. LIMITS 3.6.2 3.4 LIMITS 3.6.1 3.4 LIMITS .1 Ohms Max. 0.1 Ohms Max. Raytheon Co High Temperature Test
Electrical Tost
Electrical Tost
Supply Current
Supply Supply
Supply Supply Supply
Supply Supply Supply
Supply Supply Supply
Supply Sup Low Temperature Test
Electrical Test
Electrical Test
ELEC PARANETERS
Supply Current
Supply Current
Supply Current
Supply Current
Supply Current
Det. Ampl. Gain
6 Phase Adj. Diff.
6 Det. Ampl. Output
7 Sync. Filter Output
8 KL Output
1 U/D Sw. Symetry
2 NL Sw. Symetry
3 Sync. Filter Noise
4 Seam Circuit
RES. PARAMETERS
Between Term. Raytheon CONTRACTOR TEST CONDITION Detector & Sync. Filter Module A-3 spec. SPEC. REF. PAGE 2606038 Rev. -DATA
TEST REF.
INE GROUP PAGE 57 58 54 ដដ ដដ CINE 121 6 S

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TEST SUMMARY SHEET

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	N MBERS	<u></u>		11/12			Mounting flange broke off duri 'installation of module, ser. #0226, into Vibration fixture. See incompatability notice #0137
	SAMPLEN	FROM	.	מיא	:		stalla:
		_	;	2.	RKS		it in the second
0 10	APLEIEU	7.1	NO.		REMARKS		off dur +0137
0349 10000 4384 9410	1531 5	11-18-11	DATE TEST BEGUN	8-3-71			broke notice
3.0	3	_	DATE	_	,		lange c. #02 oillty
							nting ; ule, se ompatal
					۵		Wen and an
				1	NO. SAMPLES	44	44
		8 Rev	YPE	8 Rev.		44	4.4
047 2.00	יייי איייי	2606038	TURER'S 1	2606038	VALUES MAX.	N/A Below	3.3 8.1 8.1 8.1 8.1 9.3.25 0.4422 0.80 0.081 0.0449 0.0440 0.0440 0.081 0.080 0.080 0.080 0.080 0.080 0.080
CONTOACTOR'S TYDE			MANUFACTURER'S TYPE		MEASURED VALUES MIN. MAX.	N/A Listed	14.0 14.0
					SPEC. LIMITS	7.7	MAX. MAX. MAX. MAX. MAX. 9.00 VRMS 6.55 VRMS 0.95 VRMS 0.95 VRMS 0.95 VRMS 0.95 VRMS 0.4 MS MAX. 17 WVRMS MAX. 17 WVRMS MAX. O.9 VRMS C.09 VRMS F.C O.95 VRMS IMMITS
		>		7	SPEC.	3.6.7 3.4	ADDC MAX. ADC MAX. ADC MAX. ADC MAX. ADC MAX. 19 K Ohms 10 K O.95 VR 10 0.95 VR 10 0.95 VR 10 0.95 VR 10 0.95 VR ADC MAX. AD
		Raytheon Company		Ravtheon Company	·		115 MADC 115 MADC 117 MADC 118 MADC 119 to 19 119 to 19 119 MADC 119 MADC 110 to 19 110 to 19 1
		theon	K.	rtheon			
CONTRACTOR	101001	Ray	MANUFACTURER	Rav	XOL	u Q	tricks in the state of the sta
COS			MANI	_	TEST CONDITION	ct Shock trical Test	# # # # # # # # # # # # # # # # # # #
		11e A-3			7.63	Impact Shock Electrical Test	2 Supply Curren 3 Supply Curren 4 Supply Curren 5 Supply Curren 6 Supply Curren 6 Supply Curren 6 Supply Curren 6 Supply Curren 7 Supply Curren 8 Supply Curren 8 Supply Curren 11 N/L Sw. Symet 12 Supply Curren 13 Sync. Filter 14 Seam Circuit 15 Supply Curren 16 Supply Curren 17 Supply Curren 18 Supply Curren 18 Supply Curren 19 Supply Curren 19 Supply Curren 10 Supply Curren 11 Supply Curren 12 Supply Curren 13 Sync. Filter 14 Seam Circuit 16 N/L Output 17 Sync. Filter 18 Sync. Filter 18 Sync. Filter 19 Sync. Filter 10 U/D Sw. Symet 11 Sync. Filter 12 Sync. Filter 13 Sync. Filter 13 Sync. Filter 14 Seam Circuit 15 Seam Circuit 16 Seam Circuit 17 Seam Circuit 18 Sync. Filter 18 Sync. Filter 18 Sync. Filter 19 Sync. Filter 10 Sw. Symet 11 Sync. Filter 11 Sync. Filter 12 Sync. Filter 13 Sync. Filter 14 Seam Circuit
	:	Filter Module				Impact Electr	1 Supplied Sync. 1 Supplied Sync. 1 Supplied Sync. 1 Seam Cheken 1 RES.
		- 1			SPEC. REF. PAGE		
		& Sync.		Rev.	DATA REF. PAGE	60 65	8 6 9
EM		ector		2606038	TEST GROUP	II	HH
ITEM		Det	SPEC.	ř	LINE	13	4 d d

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TEST SUMMARY SHEET

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1			Τ	
SAMPLE NUMBERS	01-	N/A		the requirements
SAM	FROM	8/8	S	
DATE TEST COMPLETED	11-18-71	DAYE TEST BEGUN	REMARKS	Four modules successfully passed
			APLES PASSED	444 0 0 dd
	Rev.	PE Rov	30	444
CONTRACTOR'S TYPE	2606038	MANUFACTURER'S TYPE	MEASURED VALUES MIN. MAX.	N/A B B L L L L L L L L L L L L L L L L L L
CONTRAC	Ñ	MANUFAC	MEASURE	NAA Instead 13.9 7.7 7.7 7.7 7.3 0.73 0.79 0.79 0.79 0.79 0.79 0.79 0.79
	Company	Company		3.3, 3.7, 3.8, 3.9 3.4
CONTRACTOR	Raytheon	MANUFACTURER Ravtheon	TEST CONDITION	7. 4.4. A. 4.4
	Filter Module A-3		TEST (Terminal Strength Test Electrical Test Electrical Test Supply Current Supply Suppl
		Rev	SPEC. REF. PAGE	
	& Sync.	2606038	DATA REF. PAGE	815 82
ТЕМ	Detector		TEST	HHH
13.	ជ	SPEC,	LINE	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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SHEET SUMMARY TEST

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SAMPLE NUMBERS

Four modules submitted to Group III tests ser. #0209, 0211, 0255, 0258. င္ Š FROM Z K DATE TEST COMPLETED DATE TEST BEGUN 8-3-71 11-18-71 NO. SAMPLES 2606039 Rev. 2.6 3.1 12.8 14.2 7.1 8.0 8.2 8.3 14.5 15.5 3.15 3.3 0.4360.440 7.4 0.82 0.79 0.805 0 0 0 0 0 0 CONTRACTOR'S TYPE N/A N/A Below MEASURED VALUES MIN. | MAX. 0.045 0.048 N/A Below 2606038 0.043 N/A N/A Listed X X 15 MADC MAX.
35 NADC MAX.
15 MADC MAX.
15 MADC NAX.
16 MAC NAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
6.36 to 0.50 VRMS
6.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.51 to 0.95 VRMS
0.55 to 0.95 VRMS 10 MADC MAX.
30 MADC MAX.
10 MADC MAX.
10 MADC MAX.
7.25 to 8.75 VRMS
9 to 19 K Onns
2.75 to 8.75 VRMS
7 to 11 FZ
0.65 to 0.85 VRMS
0.65 to 0.85 VRMS
0.65 to 0.85 VRMS
0.2 MS MAX.
12 MVRMS MAX.
14 MVRMS MAX.
15 MVRMS MAX.
16 MVRMS MAX.
17 MVRMS MAX.
18 MVRMS MAX. 3.5.2 3.6.3 3.4 LIMITS 3.9 3.4 LIMITS Max. Max. Max. SPEC. LIMITS 0.1 Ohms Max. 0.1 Ohuns Max. Raytheon Company Resistance To Soldering Heat
Storage
Electrical Test
Electrical Test
Electrical Test
Supply Current
Supply Current
Supply Current
Supply Current
Forest
Supply Current
Supp Visual & Mach. Insp.
Electrical Test
ELECTRICAL PARAMETERS
Supply Current
Supply Current
Supply Current
A Supply Current
A Supply Current
A Supply Current
Det. Ampl. Gain
B Det. Ampl. Output
Nonc. Filter Output
Sync. Filter Bandwidth
R/L Sw. Symetry
U/D Output
N/L Sw. Symetry
U/D Sw. Symetry
Sync. Filter Noise
Sync. Filter Noise Raytheon R/L Output U/D Output R/L Sw. Symetry U/D Sw. Symetry Sync. Filter Noise Seam Circuit RES. PARAMETERS Between Term. MANUFACTURER CONTRACTOR TEST CONDITION Detector & Sync. Filter Module SPEC. REF. PAGE 95 99 105 DATA REF. PAGE 92 01/41 Ld-202-8/ HHH TEST GROUP 2606038 нн 222 LINE 있다

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TEST SUMMARY SHEET

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٥ SAMPLE NUMBERS FROM DATE TEST COMPLETED 11-18-71 8-3-71 NO. SAMPLES 44 2606038 2506038 CONTRACTOR'S TYPE 3.4 114.5 8.3 8.3 3.28 3.43 7.7 7.7 0.82 0.82 2.40 3.5 14.5 8.4 8.4 16.0 16.0 0.82 0.82 0.82 2.40 MEASURED VALUES HIN. | MAX. N/A Below 0.050 0.049 2.9 13.5 7.7 8.1 8.1 14.0 0.439 0.79 N/A isted N/A isted 0.043 2.9 13.5 7.6 8.2 14.8 3.10 0.438 0.438 0.79 0.79 0.80 0.80 0.80 0 8.7 2.38 15 MADC MAX.
35 MADC MAX.
15 MADC MAX.
16 MADC MAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
0.36 to 0.50 VRMS
6 to 12 HZ
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.51 to 0.95 VRMS
0.51 to 0.95 VRMS
0.51 to 0.95 VRMS
0.52 to 0.95 VRMS
0.55 t 15 MADC MAX.
15 MADC MAX.
15 MADC MAX.
16 MADC MAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
0.36 60 0.50 VRMS
6 to 12 HZ
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.97 VRMS
0.55 to 0.95 VRMS 3.6.5 3.4 LIMITS 3.6.5 3.4 LIMITS SPEC. LIMITS Ohms Max. Ohms Max. 1.0 0.1 Raytheon Company Raytheon Company Electrical Test
Electrical Test
Electrical Test
Electrical Test
Supply Current
Supply Current
Supply Current
Supply Current
H Supply Current
Fore Ampl. Gain
Fore. Ampl. Output
Supply Current
Fore. Ampl. Output
Fore. Ampl. Output
Fore. Filter Output
N/L Sync. Filter Bandwidth
N/L Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
Sync. Filter Noise
Seam Circuit
RES. PARAWETERS
Between Term. Electrical Test
Electrical Test
ELEC. PRIMETERS
I SUPPLY CURTENT
SUPPLY CURTENT
SUPPLY CURTENT
SUPPLY CURTENT
SUPPLY CURTENT
FRASHOL Gain
FRASHOL Gain
FRASHOL Gain
FRASHOL FRITER DUEPUT
SUPPLY
SUPPLY
SUPPLY
OUTPUT
OUTPU TEST CONDITION (A-3) Filter Module SPEC. REF. PAGE & Sync. DATA REF. PAGE 113 108 TEST GROUP 詌 詌 2606038 LINE 522 27 28

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TEST SUMMARY SHEET

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š .	,						CONTRAC	TOR'S TYPE				DATE TEST COMPLETED	SAMPLE	SAMPLE NUMBERS	
Detector	8	Symc.	Filte	Filter Module (A-3)	Raytheon Company	oany	750	2505038 кеу.	 			11-18-11	FROM	10	
2606038		Roy.		·	MANUFACTURER Ravtheon Company	Austr	MANUFAC 260	MANUFACTURER'S TYPE 2606038 Rev.	P.E.			DATE TEST BEGUN	N/A	4/2	
LINE	 		SPEC. REF. PAGE	TEST CO		SPEC. LIMITS	MEASURED MIN.	MEASURED VALUES	NO. SA	APLES PASSED		REMARKS	1		T
00 m .	I II	1128		visual Inspection Terminal Strength Test ELEC. PARAMETERS I Supply Current Supply Current Supply Current Supply Current A Supply Current Det. Ampl Gain E Phase Adi. Diff. A Det. Ampl Output Sync. Filter Output Sync. Filter Output Sync. Filter Band E N. Output U/D Output U/D Sw. Symetry U/D Sw. Symetry U/D Sw. Symetry Sync. Filter Band E N. Output Sync. Filter Band Between Termin	Test RS RS In	3.3, 3.7, 3.8, 3.9 3.4, 3.5.3 3.4, 3.5.3 3.4, 1.1MITS 15 TADC MAX. 15 ITADC MAX. 15 MADC MAX. 15 MADC MAX. 16 MADC MAX. 17.00 to 9.00 VRMS 9 to 19 K Ohms 2.75 to 8.75 VRMS 6.36 to 0.50 VRMS 6.51 to 0.95 VRMS 6.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.50 to 0.95 VRMS 0.51 to 0.95 VRMS 0.52 to 0.95 VRMS 0.53 to 0.95 VRMS 0.54 to 0.95 VRMS 0.55 to 0.95 VRMS	ပြော တဝဝက ဖြေ	 		444	, and the second				
				End Of Group III Tests	II Tests						our modules E Q-1427 Gro	Four modules successfully passed the requirements of Q-1427 Group III.	the requir	ements	

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SHEET SUMMARY

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Four modules submitted to Group IV tests Ser. #0250, 0286, 0294, 0300 ဥ K X SAMPLE NUMBERS FROX Š DATE TEST COMPLETED DATE TEST BEGUN 8-3-71 11-18-71 NO. SAMPLES ESTED | PASSED ママ 44 TESTED 2606038 Rev. MANUFACTURER'S TYPE 2606038 Rev. 44 44 CONTRACTOR'S TYPE 14.8 3.48 0.446 0.82 0.82 3.3 13.9 8.0 8.0 8.2 15.4 7.7 N/A Below 0.047 MEASURED VALUES 11.8 N/A Below 0.83 0.83 0 0.048 MAX. N/A Listed 2.8 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 0.433 0.80 0.80 0.80 22.6 12.6 7.7.0 7.4.0 14.0 9.4 0.80 0.80 0.80 N/A isted 0.044 0.045 2 Dec.

X Max.

19 K Ohms

2 10 K Ohms

3.2

3.2

3.2

48 to 0.48 VRMS

7 to 11 HZ

65 to 0.85 VRMS

7.65 to 0.85 VRMS

0.2 MS Max.

0.2 MS Max.

0.2 MS Max.

12 NVRMS Max.

2.20 to 2.50 VRMS.

THAITS ž. 0.95 VRMS 0.95 VRMS 0.4 MS Max. 0.4 MS Max. 17 MVRMS Max. 1260 VRMS Max. 9.00 VRMS K Ohms 8.75 VRMS 0.50 VRMS 3.6.9 3.4 LIMITS 3.9 3.4 LIMITS SPEC. LIMITS 0.1 Ohms Max. 10 MADC N 30 MADC N 10 MADC N 7.25 to 8 9 to 19 1 2.75 to 8 0.38 to 8 0.65 to 0.65 to 0.65 to 0 15 MADC N 35 MADC N 15 MADC N 7.00 to 9 9 to 19 N 2.75 to 6 6.50 to 6 6.55 to 6 0.55 to 6 2.10 to ပ္ပ Raytheon Co. fe Test 1St Profile (96 hrs)
ELEC. PRANKETERS
SUPPLY Current
Supply Current
Supply Current
Supply Current
Supply Current
Supply Current
Det. Ampl. Gain
Phase Adj. Diff.
Det. Ampl. Output
Sync. Filter Output
Sync. Filter Bandwidth
N.L Output
N/D Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
Sync. Filter Noise
Sync. Filter Noise
Sync. Filter Noise
Seam Circuit
RES. PRANKETERS Raytheon Supply Current
Det. Ampl. Gain
Fhase Adj. Diff.
Det. Ampl. Output
Sync. Filter Bandwidth
K/L Output
N/D Output
K/L Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
Sync. Filter Noise
Seam Circuit
RES. PARAMETERS
Between Term. 7 & 12 Visual and Mechanical Insp. Slectrical Test ANUFACTURER CONTRACTOR TEST CONDITION (A-4) Detector & Sync. Filter Module ST252 SPEC. REF. PAGE DATA REF. PAGE 130 138 Rev. FEC. 2606038 TEST 44 нн LttE 38 m m

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TEST SUMMARY SHEET

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DATE TEST COMPLETED SAMPLE NUMBERS	11-18-71 FROM TO	DATE TEST BECUN N/A N/A N/A	REMARKS	Man John July elantist the standard to the sta
			NO. SAMPLES STED PASSED	44
	Rev	rype Rev	NO. SA	~u 44
OR'S TYPE	2606038 F	FACTURER'S TY 2600038 R	VALUE.	N/P 3.2 13.2 13.2 13.8 7.6 8.0 8.0 15.0 0.82 0.82 0.83 0.083 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049
CONTRACTOR'S TYPE	260	MANUFACTURER'S TYPE 2600038 Rev	MEASURED VALUE. MIN. MAX.	ListedBelow ListedBelow 2.6 12.6 13.2 12.6 13.8 13.8 14.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15
	co.	co.	SPEC. LIMITS	3.6.9 3.4. LIMITS 15 MADC MAX. 15 MADC MAX. 15 MADC MAX. 16 MAX. 17.00 to 9.00 VRMS 9 to 19 K Ohms 2.75 to 8.75 VRMS 0.36 to 0.50 VRMS 0.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.55 to 0.95 VRMS 0.10 to 2.60 VRMS 0.11 MADC MAX. 17 MYRMS MAX. 18 MADC MAX. 18 MADC MAX. 19 MADC MAX. 11 MADC MAX. 15 MADC MAX. 16 MADC MAX. 17 VO to 9.00 VRMS 9 to 19 K Ohms 2.75 to 8.75 VRMS 0.36 to 0.50 VRMS 0.36 to 0.50 VRMS 0.36 to 0.50 VRMS 0.36 to 0.90 VRMS 0.37 TO VRMS 0.38 TO VRM
CONTRACTOR	neon	MANUFACTURER Raytheon C	TEST CONDITION	rofile (72 hrs) ETERS ent ent ent ent Sain Oiff. Output r Coutput r Noise FIERS ent
11	Filter Module			Life Test 2nd P. Slectrical Test BLEC. PARAM BURDLY CULT, Supply CULT, Supply CULT, Supply CULT, Supply CULT, Supply CULT, Supply CULT, F. Det. Ampl. O. Sync. Filted Supply CULT, Sync. Filted Sync. Filted Misse Adj. Output I K'L Sw. Sym I Sync. Filted Sync. Filted Sync. Filte Sync. Filted
]]	J		SPEC. REF. PAGE	
,	Sync.	Rev	DATA REF. PAGE	142 146 147
	Detector &	EC. 2606038	TEST GROUP	44 · 44
1164	Det	26.	LINE	88 8.4 60

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TEST SUMMARY SHEET

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ဥ SAMPLE NUMBERS FROM DATE TEST COMPLETED 11-18-71 DATE TEST BEGUN 8-3-71 NO. SAMPLES 2606038 Rev. MANUFACTURER'S TYPE 2606038 Rev. CONTRACTOR'S TYPE MEASURED YALUES 3.2 14.0 7.6 7.6 8.3 14.3 14.3 14.3 3.51 0.0 0.83 0.83 0.83 0.83 0.83 0.83 0.83 10.5 N/A N/A 0.048 0.049 N/A N/A 0.049 HAX. 0.21 12.56 7.66 12.83 12.83 12.83 12.84 12.80 0.80 0.80 9.3 12.5 17.25 17.20 17.20 18.11 13.37 17.44 1 ZIZ. .047 15 MADC MAX.
35 MADC MAX.
15 MADC MAX.
15 MADC MAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
0.36 to 0.50 VRMS
6 to 12 HZ
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS
2.10 to 2.60 VRMS
LIMITS 0.4 MS Max. 0.4 MS Max. 17 MVRMS Max. 2.10 to 2.60 VRMS LIMITS 15 MADC MAX.
35 MADC MAX.
15 MADC MAX.
15 MADC MAX.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
0.36 to 0.50 VRMS
6 to 12 HZ
0.55 to 0.95 VRMS
0.55 to 0.95 VRMS SPEC. LIMITS 3.6.9 3.4 LIMITS 3.4 LIMITS).l Ohms Max. 1 Ohms Max Raytheon Company Raytheon Company Life Test 4th Profile (72 Hrs)
Electrical Test
Supply Current
Supp Life Test 5th Profile (96 Hrs)
Electrical Test
Supply Current
Supply Supply
Supply Supply CANUFACTURER CONTRACTOR TEST CONDITION Between Term. Detector & Sync. Filter Module (A-3) SPEC. REF. PAGE 2606038 Rev. DATA REF. PAGE 150 154 155 TEST GROUP 유유 유유 Z. 44 443

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TEST SUMMARY SHEET

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9 SAMPLE NUMBERS ž FROM ۸ ک DATE TEST COMPLETED 11-18-71 DATE TEST BEGUN 8-3-7 NO. SAMPLES 2606038 Rev. MANUFACTURER'S TYPE 2606038 Rev 3.2 113.8 7.6 8.0 145.2 0.82 0.82 CONTRACTOR'S TYPE MEASURED VALUES MIN. | MAX. N/A Below 0.051 13.2 13.9 17.6 7.6 1.4.8 0.448 0.82 0.83 2.40 N/A N/A Below 0.051 N/A Listed 0.047 N/A N/A 2.5 12.5 7.2 7.3 8.1 14.0 3.438 7.4 0.80 0.047 15 MADC MAX.
35 MADC MAX.
15 MADC MAX.
115 MADC MAX.
16 MADC MAX.
1700 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
9.36 to 0.50 VRMS
10.12 HZ
10.55 to 0.95 VRMS
10 15 MADC Max.
35 MADC Max.
15 MADC Max.
15 MADC Max.
7.00 to 9.00 VRMS
9 to 19 K Ohms
2.75 to 8.75 VRMS
6.36 to 0.50 VRMS
6. to 12 HZ
6. to 12 HZ
6. to 12 HZ
6. to 0.95 VRMS
6.55 to 0.95 VRMS
6.55 to 0.95 VRMS
6.55 to 0.95 VRMS
7.10 to 2.60 VRMS
8.2.10 to 2.60 VRMS
17 MVRMS Max.
2.10 to 2.60 VRMS 3.3, 3.7, 3.8, 3.9 3.5.3 3.4 LIMITS SPEC. LIMITS 0.1 Ohms Max. Ohms Max Raytheon Company Raytheon Company 0.1 Life Test 6th Profile (72 Hrs)
Electrical Test
ELEC. PARAMETERS
Supply Current
Supply Current
Supply Current
Supply Current
Supply Current
Supply Current
Fort. Ampl. Gain
Shase Adj. Diff.
A Det. Ampl. Output
Sync. Filter Output
Sync. Filter Bandwidth
Sync. Filter Bandwidth
Sync. Filter Bandwidth
Sync. Filter Noise
12 U/D Sw. Symetry
13 Sync. Filter Noise
14 Sean Circuit
Sean Circuit
Shase Symetry
15 Sync. Filter Noise
16 Sean Circuit
Sean Circuit
Sean Circuit
Sean Circuit
Sean Circuit
Sean Circuit Visual Inspection
Terminal Strength Test
Electrical Test
ELEC. PARAMETERS
1 Supply Current
2 Supply Current
3 Supply Current
4 Supply Current
5 Det. Ampl. Gain
6 Phase Adj. Diff.
6A Det. Ampl. Output
7 Sync. Filter Bandwidth
8/L Output
0 U/D Output
1 R/L Sync. Filter Bandwidth
8/L Output
1 R/L Sync. Filter Bandwidth
8/L Output
1 W/L Sw. Symetry
U/D Sw. Symetry
U/D Sw. Symetry
Sync. Filter Noise
4 Seam Circuit
RES. PARAMETERS TEST CONDITION Detector & Sync. Filter Module (A-3) SPEC. REF. PAGE Rev. DATA REF. PAGE 158 159 162 171 172 2606038 TEST AA. AnA CINE TEM 45 46 48 49 49

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TEST SUMMARY SHEET

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SAMPLE NUMBERS ON TO	N/A		
ETED	DATE TEST BEGUN N/A 8-3-71		REMARKS
1	•	MPLES	PASSED
ev.	ev.		TEUTED PASSED
CONTRACTOR'S TYPE 2606038	MANUFACTURER'S TYPE 2606038 R		MEASURED VALUES MIN. MAX.
CONTRAC	MANUFAC		MEASURE
			117.5
	pany		SPEC. LIMITS
	Raytheon Company		
	MANUFACTURER Raythe	TION	
CONTRACTOR Filter Module (A-3 Ray	HAN	TEST CONDITION	
Sync. Filter		SPEC. REF. PAGE	
	Rev	DATA REF. PAGE	
Detector &	86.39	16.31	-
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NOTES:

1. MODULE SHALL BE IN ACCORDANCE WITH AS1846, UNLESS OTHERWISE SPECIFIED HEREON:

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- A 2. PREPARATION, PROCEDURES AND REQUIREMENTS FOR SOLDERING SHALL BE IN ACCORDANCE WITH WS6536 EXCEPT COMPONENT LEADS SHALL BE .030.
 - 5. ELECTRICAL PEQUIPEMENTS: THE FOLLOWING REQUIREMENTS SHALL APPLY IN ADDITION TO THOSE SPECIFIED IN AS1846.
 - A. MODULE STATIC REQUIREMENTS SHALL BE AS SPECIFIED IN TABLE I.
 - B. MODULE OPERATING REQUIREMENTS, WITH MODULE INSERTED IN TEST CIRCUIT, FIGURE 1, SHALL BE AS SPECIFIED IN TABLE II.
 - B CAUTION: SET SMITCHES SI, SZ AND S3 TO POSITION 1 (OFF), ALSO THE RESISTANCE OF THE DECADE BOX BETWEEN PINS 3 AND 23 SHOULD BE SET TO IS 2 1K OHMS, BEFORE INSERTING MODULE.
 - C. FOR FREQUENCIES F1 AND F2 SEE DWG 2412395.
 - D. TEST CIRCUIT INPUTS, UNLESS OTHERRISE SPECIFIED HEREON SHALL BE AS FOLLOWS:
 - (1) INPUT SIGNALS SHALL BE SET WITH POWER ACTIVATED.
 - (2) REFERENCE INPUT TO PINS 13 AND 15 SHALL BE 1.0 ± .2 VRMS AT F₁ ± .8% WITH THE 0° ± 1° PHASE APPLIED TO PIN 13 AND THE 90° ± 1° PHASE APPLIED TO PIN 15.
 - E. EQUIVALENT TEST EQUIPMENT MAY BE SUBSTITUTED FOR THOSE SPECIFIED.
 - 4. PHYSICAL REQUIREMENTS: THE FOLLOWING PEQUIREMENTS SHALL APPLY IN ACCITION TO THOSE SPECIFIED IN AS 1846.
 - A. COMPONENT LEADS, FEEDTHRU WIRES, AND ALL METAL CASE COMPONENTS WITHIN MODULE SHALL BE ISOLATED FROM EACH OTHER .020 MINIMUM.
 - (1) ALL COMPONENT LEADS AND ITEM 43 MAY BE INSULATED WITH ITEM 52 TO MAINTAIN REQUIRED CLEARANCE.
 - (2) ITEMS 36. 37 AND 39 MAY BE INSULATED WITH FER 56 TO MAINTAIN REQUIRED CLEARANCE.
 - (3) ITEM 38 MAY BE INSULATED WITH ITEM 54 TO MAINTAIN REQUIRED CLEARANCE.
 - (4) ITEM 49 MAY BE INSULATED WITH ITEM 55 TO MAINTAIN REQUIRED CTEARANCE.
 - B. BUILD-UP OF COLPER ON ITEMS 1 AND 2 SHALL NOT EXCEED .040 MAXIMUM.
 - C. ENCAPSULATED MODULE CHALL HAVE .060 MAXIMUM CORNER RADII, UNLESS OTHERWISE SPECIFIED HEFEON.
 - D. ITEM 45 SHALL BE ASSEMBLED OVER LEADS OF ITEMS 36, 37, 38 AND 39: AND ITEM 44 SHALL BE ASSEMBLED OVER LEADS OF ITEM 49 PRIOR TO MOUNTING ON ITEMS 1 AND 2.
 - E. ITEM 43 SHALL MEET THE SOLDERABILITY REQUIREMENTS OF MIL-STD-202, METHOD 2088.
 - F. DIMENSIONS NOTED NEED NOT BE HELD AFTER SOLDERING.
 - 5. ENCAPSULATING REQUIREMENTS:
 - 4. AFTER SOLDERING, APPLY 2 COATS OF ITEM 48 TO SOLDERED ASLEMBLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THEN ENCAPSULATE MODULE TO CONFIGURATION SHOWN USING ITEM 46.

- (1) ENCAPSULATION SHALL BE CONTINUOUS AND FREE FROM CRACKS.
- (2) SURFACE IRREGULARITIES LARGER THAN ,100 DIAMETER BY .050 DEEP REPAIRED USING ITEM 46.
- (3) ALL MODULE COMPONENTS. EXCEPT ITEM 3 PROTRUDING FROM SURFACE D COMPLETELY COVERED WITH ENCAPSULATING MATERIAL.
- (4) ENCAPSULATION FLASH AT BASE OF ITEM 3 PROTRUDING FROM SURFACE EXCEED .030 ABOUT ITEM 3. NOR PROJECT ABOVE SURFACE DATUM
- 6. SYMBOLS USED HEREON ARE DEFINED AS FOLLOWS:
 - + INDICATES ANODE END OF DIODE OR POSITIVE END OF POLARIZED CAPA
 - B. . INDICATES COMPONENT LEAD WIRE.
 - C. 👝 INDICATES FEEDTHRU LEAD WIPE.
 - D. INDICATES COPPER CIRCUIT NEAR SIDE.
 - E. MINICATES COFPER CIRCUIT FAR SIDE.
 - F. A INDICATES PADS CONNECTED TO GROUND PLANE FAR SIDE.
- REFERENCE DESIGNATIONS SHOWN ARE FOR REFERENCE ONLY AND NEED NOT APPEAR
 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION, PF DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION(S).
- 9. MARK, INDENT HOLD OR EMBOSS CHARACTERS SHOWN IN 1/16 MINIMUM HIGH CHARK SHOWN.
 - A. MARKING SHALL BE ACCOMPLISHED USING A CONTRASTING COLOR OF ITEM 50
- B B. INDENT MOLDED OR EMBOSSED CHARACTERS SHALL HAVE A .010 KAX. DEPTH ABOVE SURFACE CATUM _-B-_ AS APPLICABLE.
 - C. MARKINGS SHALL BE LOCATED WITHIN 1/8 INCH ADJACENT TO LEAD.
- 10. MARK "30003-2606038" AND REVISION LETTER TO WHICH PART IS MANUFACTURED CHARACTEPS. IN POSITION SHOWN, USING A CONTRASTING COLOR OF ITEM 50.
- 11. SEE NOTE 3 BEFORE INSERTING MODULE INTO TEST CIRCUIT.
- (B) 12. MODULE OPERATION DURING LIFE TEST SHALL BE IN ACCORDANCE WITH FIGURE:
 - 13. FOR TEST 7 ONLY, PHASE LOCK THE SIGNAL AT PIN 3 WITH THE SIGNAL AT PIN PIN 3 SIGNAL 45 ± 5 DEGREES AND TAKE MEASUREMENT.
 - 14. BANDWIDTH IS MEASURED AROUND CENTER FREQUENCY.

MICROFILM LEGIBILITY IS THE BEST POSSIBLE FROM THE ORIGINAL REPORT QUALITY

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c		В	B
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Α	Α .	A	
SHEET NO.1	SHEET NO.2	SHEET NO.3	SHEET NO.4
F	EVISION STAT	US OF SHE	ETS

56	ДР		2602187-2	INSULATOR		SEE NOTE 44(2)	
55	AR		2602187-4	INSULATOR		SEE NOTE 44(4)	
54	AR		2602187-5	INSULATOR		SEE NOTE 4A(3)	
53	1		2602180-370	CAPACITOP			C31.
52	AR		AWG NO 20	INSULATION SLEEVING	NIL-I-22129	(COLOR OPT.)	
51	AP		CLEAR	LACQUER	TT-L-26		
50	AR		SEE NOTES 94 AND 10	INK, MARKING	11-1-558		
49	3		2602191-1	MICROELECTRONIC DEVICE			Z301
49	ΔP	13675	VENS-100	CONFORMAL COATING			
47	1		2606046-54	RESISTOR			R337
46	AR		2602199	MOLDING COMPOUND			
45	9		2596349-1	PAD, TPANSISTOR		" NOTE 40	
44	3		2596347	PAD, TPANSISTOR		L L'OTE 40	L
43	42		TYPE N-3 .0250 : 0020	WIRE	MIL-STD-1276		
42	1		CK128X1504	CAPACITOR	MIL-C-11015/20		C322
41	1		JANTXIN963B	SEMICONDUCTOR DEVICE	MIL-S-19500/117		1830
1767 10,	QTY	CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	NOTE	

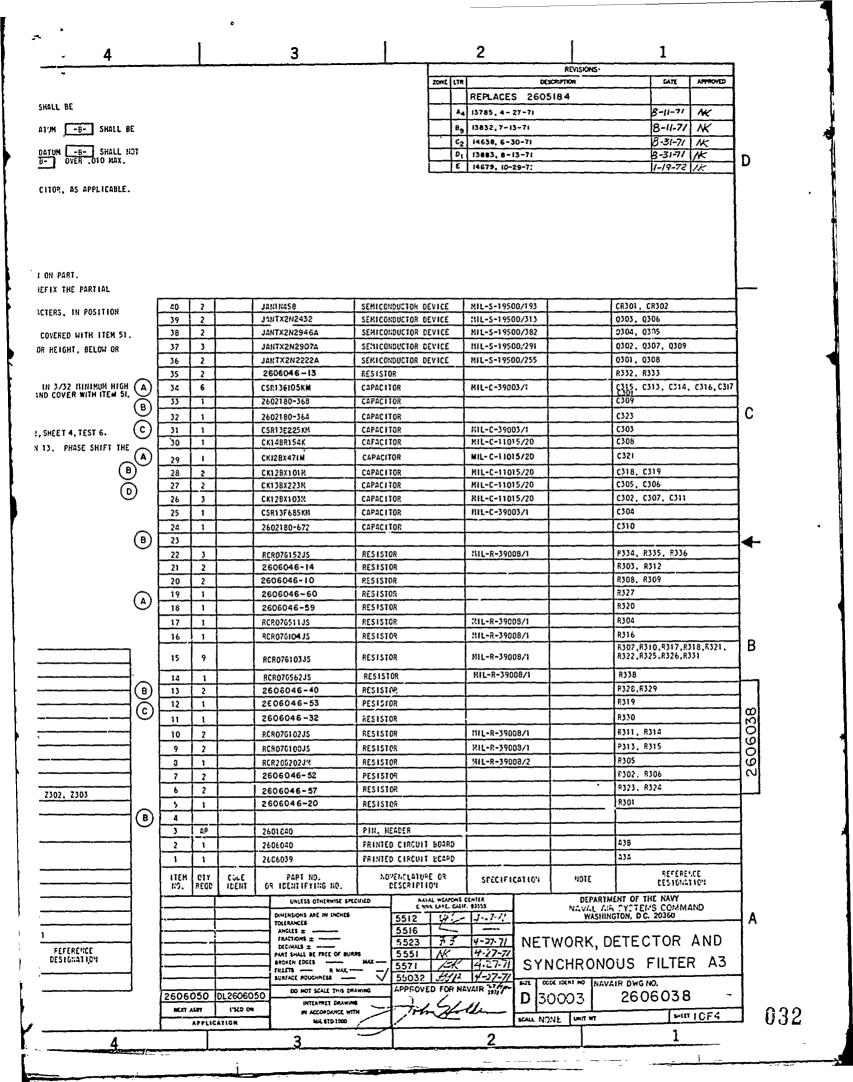
031

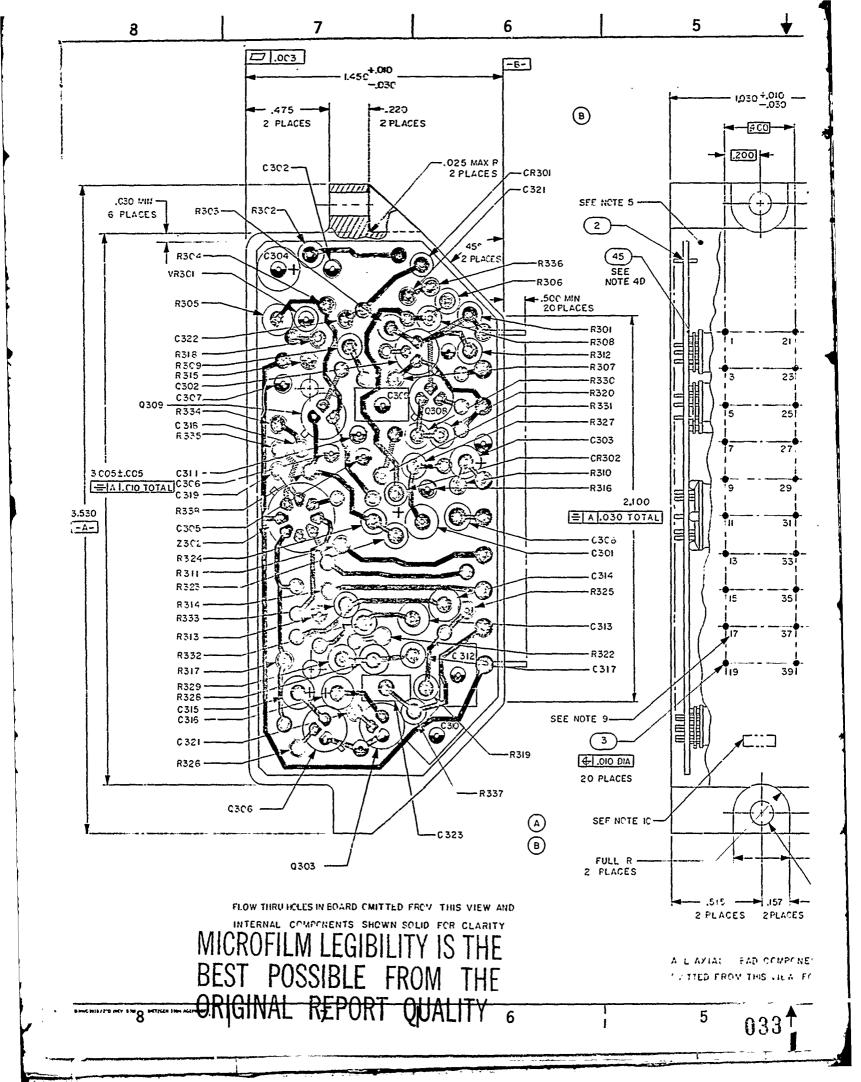
110-1110/2120 (NEV. 5.70) BICTZDER 150H ADDF1000F

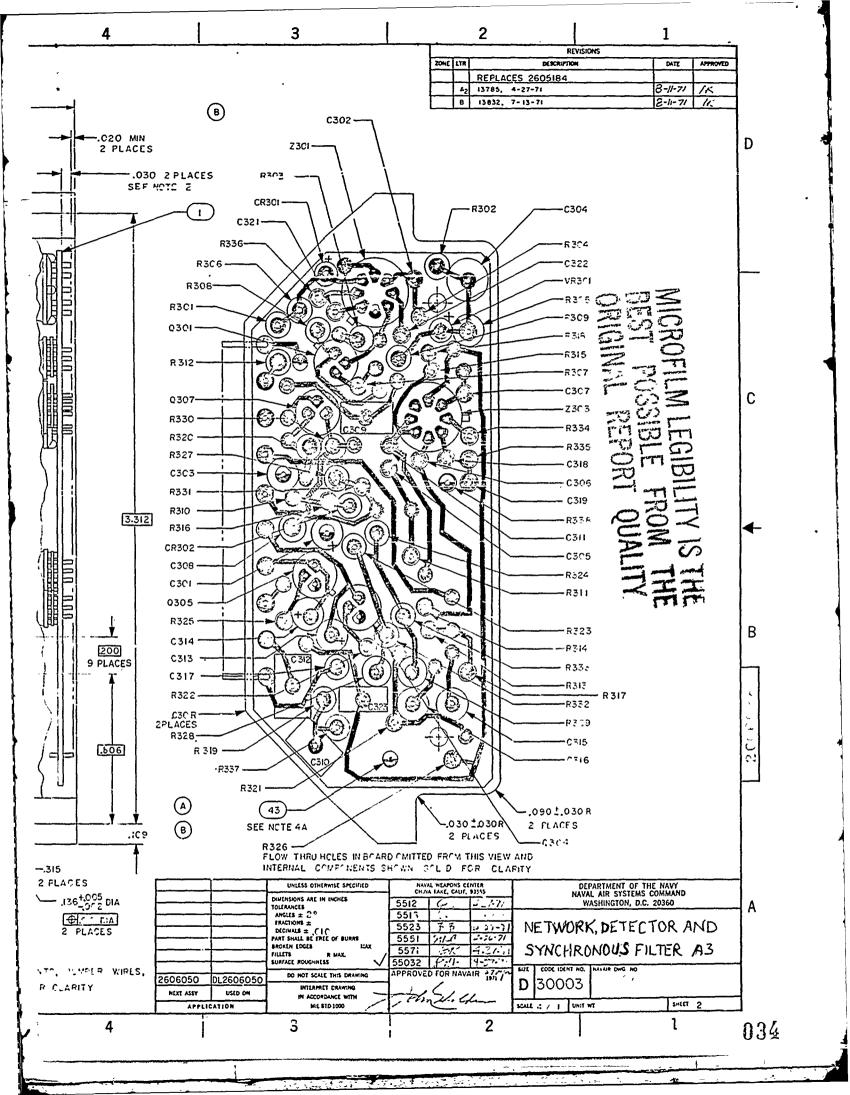
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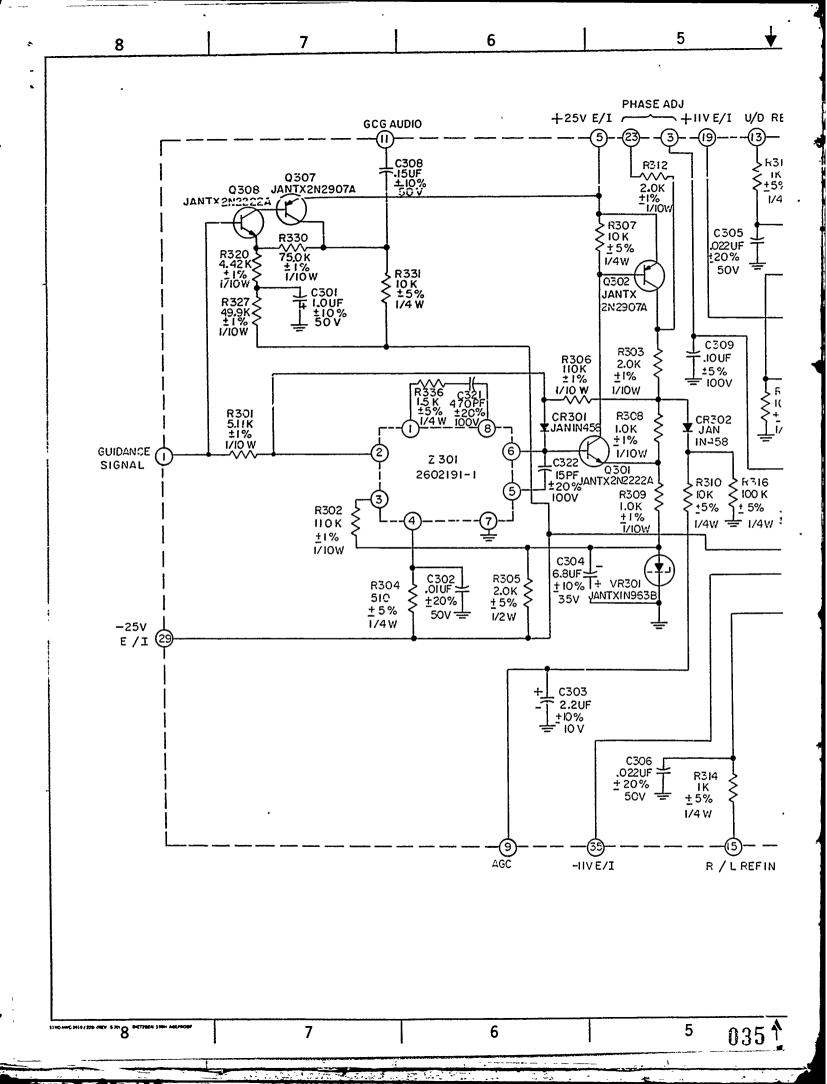
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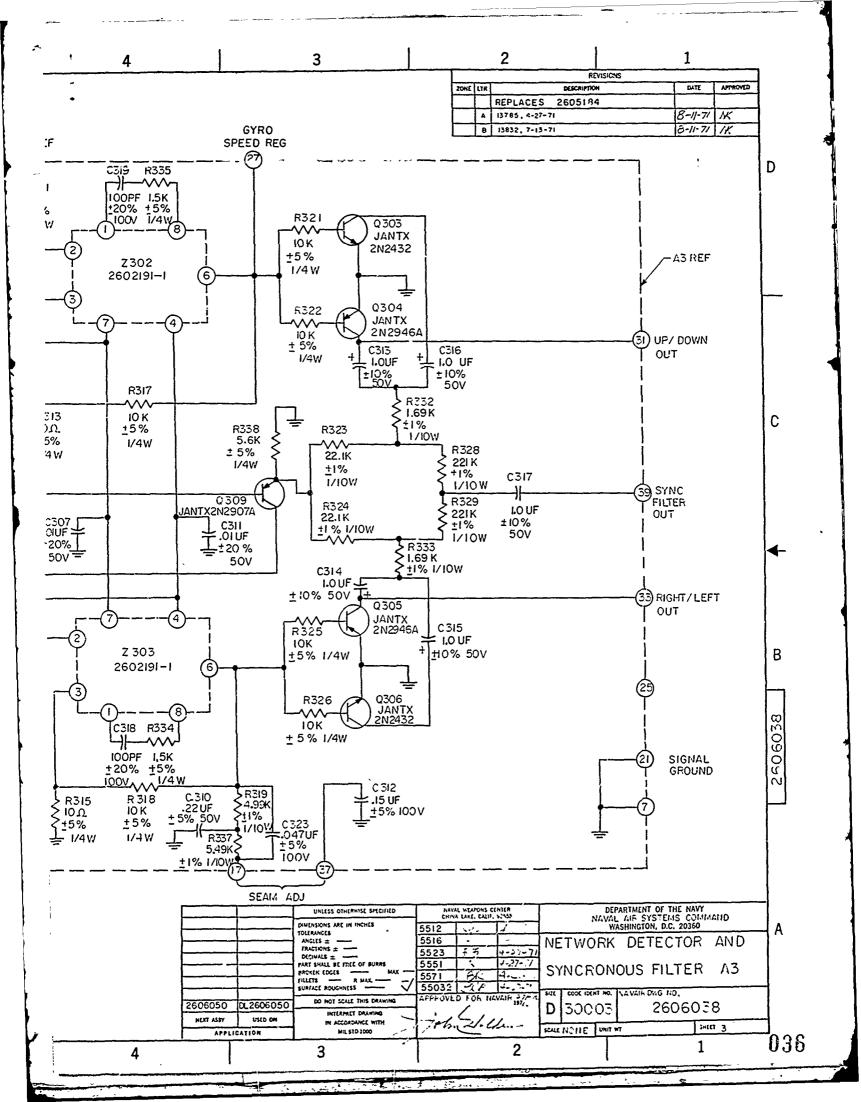
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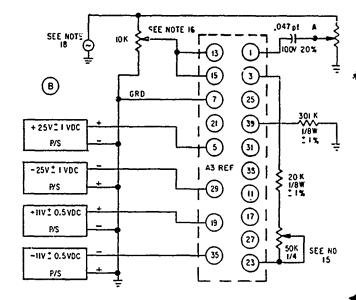




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MICROFILM LEGIBILITY IS THE BEST POSSIBLE FROM THE ORIGINAL REPORT QUALITY

TABLE I (SEE NOTE 3A)							
TEST	PARAMETER	BETWEEN	PEQUIREMENTS '				
NO.	FARAMEIER	TERMINAL	PRE-ENVIRONMENTAL	POST-ENVIRONMENTAL			
1	RESISTANCE	7 AND 21	,1 OHM MAX	.2 OHM MAX			



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LIFE TEST CIRCUIT FIGURE 2

				TABLE II (SEE NOTE 38)				
TEST	PARAMETER	TER".	REQUIREMENTS			,	ION	REMIRKS
NO.		<u> </u>	PRE-ENVIRONMENTAL	POST-ENVIRONMENTAL	51	52	53	петенну
1	SUPPLY CURRENT	5	IO MADE MAX.ABS	15 MADC MAX.ABS	2	1	1	
2	SUPPLY CURRENT	29	30 MADE FAX. ABS	35 MADE MAX. ABS	2	1	1	
3	SUPPLY CURRENT	19	10 MADE MAX, ABS	15 MADO MAX. ABS	2	1	1	
4	SUPPLY CURRENT	35	10 MADE MAX, ABS	15 MADC MAX.ABS	2	1	1	
5	AUD. AMPL. OUTPUT	11	8.0 ± .75VRMS	8.0 ± 1.0 VRMS	2	2	1	APPLY 500 2 5 MV RMS TO PIN 1. SET FREQ. TO F ₂ 2 0.8%.
6	PHASE ADJUSTMENT DIFFERENCE	BETWEEN 3 & 1	14 ± 5 K R	14 ± 5 K N	2	2	,	ADJUST FREQ. AT PIN 1 TO F. 1.8% AND THE VOLTAGE LEVEL TO 250 2 5 MVRMS, THEN SET THE RESISTANCE BETWEEN PINS 3 AND 23 FOR A PHASE READING OF 13523
6A	CET. AMPL. GUTPUT	3	5.75 : 3.0 VRMS	5.75 ± 3.0 VRMS	2	1	,	SAME CONDITIONS AS TEST 6.
7	SYNC FILTER OUTPUT	39	.43 ± .05 VRMS	.43 : .C7 VRMS	2	,	,	ADJUST VOLTAGE TO PSTAIN 1.42 : .02 VRMS AT F1 : .8% AT PIN 3 (TEE NOTE 13)
8	SYNC FILTER BANDWIOTH	39	9 ± 2 Hz	9 ± 3 Hz	2	3	1	ADJUST FREQUENCY AT PIN 3 TO OBTAIN A '3db BANDHIDTH AT PIN 39. SEE NOTE 14.
9	R/L OUTPUT	33	.75 : .10 VRMS	.75 ± .20 VRIIS	2	3	2	SET IMPUT PIN 3 TO 1.0 ± 0.2 VRMS AT
10	U/D OUTPUT	31	.75 : .10 VRHS	.75 ± .20 VRMS	2	,	2	FREQ. F ₁ ± 0.8%.
11	R/L SWITCHING SYPMETRY	:7	.? HSEC MAX.	.4 IISEC IIAX	,	1	,	MEASURE EACH HALF CYCLE OF THE SWITCHING WAVEFORM AND DETERMINE THE TIME DIFFERENCE BETWEEN THE TWO.
12	U/D SWITCHING SYMMETRY	27	.2 PSEC MAX	.4 MSEC MAX	2	1	,	"EASURE EACH MALE CYCLE OF THE SWITCHING WAVEFORM AND DETERMINE THE TIME DIFFERENCE BETWEEN THE TWO.
13	SYNC FILTER NOISE	39	10 MVRPS MAX	15 MVRHS MAX	2	,	,	MEASURE SYNC FILTER NOISE
14	SEAM CIRCUIT VOLTAGE	37	2.35±,15 %RMS	2.351.25 VRMS	2	,	,	MEASURE SEAM VOLTAGE,
15	SEAM CIRCUIT PHASE	BETWEEN IS 8 37	120 2 5*	120:6*	2	1	Ī,	PIN 15 SHALL BE REFERENCE VOLTAGE FOR PHASE READING.

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